FBM202 P0914ST

Thermocouple and Millivolt Input Module

FBM202 is an I/A Series thermocouple and millivolt input module. It acquires eight isolated low-level input channels and uses an additional isolated RTD channel for reference-junction compensation in a suitable installation.

Identity and engineering context

P0914ST is shown in the manufacturer baseplate arrangement for this module. Thermocouple type, millivolt range and cold-junction method are configured in the system; the matched termination assembly and sensor wiring determine the installed measurement path.

Technical capability map

Measurement

Thermocouple or millivolt

Process channels

Eight isolated inputs

Reference junction

One isolated RTD input

System

Foxboro I/A Series

Baseplate marking

P0914ST

Configuration

Per-channel input selection

For replacement, save every channel type, scaling, compensation arrangement and alarm setting. Recommission with known input references and compare the displayed engineering values with the process instruments.

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Applications and compatibility

Process temperature inputs

Acquire configured thermocouple measurements from supported field sensors.

Low-level voltage inputs

Read suitable millivolt signals within the configured range.

Cold-junction compensation

Use the paired RTD channel where the installed thermocouple arrangement requires reference compensation.

Module restoration

Transfer a matched FBM202 while retaining the baseplate and channel configuration.

Engineering precautions

01 Save sensor types

Record each thermocouple or millivolt selection.

02 Check polarity

Keep low-level input leads and terminal polarity correct.

03 Review cold junction

Inspect the RTD reference path and its installation.

04 Protect measurement wiring

Maintain shielding and separation from power cables.

05 Match baseplate

Confirm the P0914ST arrangement and mating hardware.

06 Verify inputs

Use suitable known references for affected channels.

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Service decisions and documentation

Why can a thermocouple reading on FBM202 P0914ST shift after replacement?

Check sensor-type configuration, lead polarity and reference-junction compensation before adjusting the measurement.

Can a current transmitter be connected as a millivolt input to FBM202 P0914ST?

Do not treat a current signal as a direct low-level voltage input. Use the approved signal-conditioning and FBM configuration.

What configuration should be saved before removing FBM202 P0914ST?

Retain channel types, millivolt ranges, compensation setup, engineering-unit scaling and alarm limits.

What acceptance check is appropriate for FBM202 P0914ST?

Apply known thermocouple or millivolt references and compare the indicated value and alarm behavior for each affected channel.

What does the RTD channel do in FBM202 P0914ST?

It supports reference-junction compensation for the installed thermocouple measurement arrangement; it is separate from the eight process inputs.

How should an open thermocouple on FBM202 P0914ST be diagnosed?

Check sensor continuity, connector seating, termination, configured sensor type and module diagnostics.

Does P0914ST alone specify every field terminal for FBM202 P0914ST?

No. Confirm the actual baseplate, termination assembly and cable configuration in the installed system.

Why is shielding important for FBM202 P0914ST?

Thermocouple and millivolt signals are low level; preserve the site design for routing and grounding to limit noise and measurement error.

Technical basis: Foxboro PSS 21H-2X2 B4 and PSS 21H-2Z2 B4.

Related Foxboro service parts

- Foxboro FBM218 P0922VW
- Foxboro P0922AE
- Foxboro FBM1/37/43 P0400HH

Technical enquiry

sales13@apterpower.com

+86 18030235313 | WhatsApp